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Title: **JP2001240458A2; CALSIUM SILICATE FORMED ARTICLE AND MET PRODUCING THE SAME**

Country: JP Japan

Kind: A2 Document Laid open to Public inspection

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Assignee: KONOSHIMA CHEMICAL CO LTD
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Application Number: JP20000000100101

IPC Code: C04B 28/18; C04B 16/02; C04B 28/18; C04B 103/60; C04B 111/40;

ECLA Code: C04B28/18C;

Priority Number: 2000-02-25 JP20000000100101

Abstract: PROBLEM TO BE SOLVED: To provide a calcium silicate formed article for use as interior construction material which is light weight, has high mechanical strength and good workability of processed or polished surface.

SOLUTION: This method for producing a calcium silicate formed article comprises the steps of preparing raw material slurry comprising the mixture of crystalline silicate, calcareous material, water and natural cellulosic fiber where the fiber content by solid base is 1.0 to 6.0 pts.wt. based on 100 pts.wt. of solid content of the silicate and calcareous material, hydrothermally reacting the slurry to generate calcium silicate hydrate containing natural cellulosic fiber crystallized like twigs with primary particles of calcium silicate hydrate twined around, forming and drying the calcium silicate hydrate.

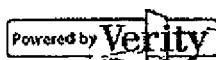
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CPY - KAMS

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IC - C04B16/02 ; C04B28/18 ; C04B103/60 ; C04B111/40

MC - L02-A03

PA - (KAMS) KAMISHIMA KAGAKU KOGYO KK

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XA - C2002-026161

XIC - C04B-016/02 ; C04B-028/18 ; C04B-103/60 ; C04B-111/40 ; (C04B-028/18) ;
(C04B-022/16) ; (C04B-022/06) ; (C04B-016/02) ; (C04B-014/04)

AB - JP2001240458 NOVELTY - Compact is obtained by molding calcium silicate hydrate (H) of preset primary particle size adhered on cellulose fiber and drying molded component. Hydrate (H) is obtained by crystallizing a hydrothermallyzed raw material slurry (S). The slurry (S) comprises phosphate, a mixture of crystalline silicic acid raw material, calcareous raw material and water, and natural cellulose fiber raw material.

- DETAILED DESCRIPTION - The raw material slurry comprises 0.5-6 weight parts (wt.pts) of phosphate, 100 wt.pts of a mixture of crystalline silicic acid raw material, calcareous raw material and water, and 1-6 wt.pts of natural cellulose fiber raw material.

- An INDEPENDENT CLAIM is also included for calcium silicate compact manufacturing method.

- USE - The compact is useful as a construction interior material.

- ADVANTAGE - The calcium silicate hydrate particle is firmly adhered on the fiber surface, and thereby a compact of high bulk density, bending strength, mechanical strength and workability is provided. The compact has uniform or polished surface. The compact is manufactured inexpensively, since waste paper pulp fiber is used as cellulose fiber raw material.

- (Dwg.0/13)

C - C04B28/18

- C04B22/16

- C04B22/06

- C04B16/02

- C04B14/04

IW - COMPACT USEFUL INTERIOR MATERIAL OBTAIN CALCIUM SILICATE HYDRATE ADHERE SURFACE FORMING SLURRY PHOSPHATE SILICIC ACID CELLULOSE

IKW - COMPACT USEFUL INTERIOR MATERIAL OBTAIN CALCIUM SILICATE HYDRATE ADHERE SURFACE FORMING SLURRY PHOSPHATE SILICIC ACID CELLULOSE

NC - 001

OPD - 2000-02-25

ORD - 2001-09-04

PAW - (KAMS) KAMISHIMA KAGAKU KOGYO KK

TI - Compact useful as interior material, is obtained by molding calcium silicate hydrate adhered on fiber surface which is formed by crystallizing hydrothermallyzed slurry of phosphate, silicic acid and cellulose fiber